2 Product Specifications

2-1 Specifications

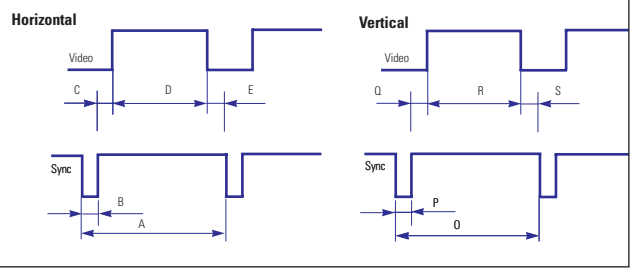
Item	Description
Picture Tube:	17-Inch (43 cm): 16-inch (40.6 cm) viewable, 19-Inch (48.2 cm): 18-inch (45.8 cm) viewable, 21-Inch (53 cm): 20-inch (50.8 cm) viewable, 17"/19": 0.26 mm Dot pitch, 21": 0.25 mm Dot pitch, Full-square flat-face tube, 90˚ Deflection, 100˚ Deflection (PG19S*, PG19R*), Anti-Reflection coating with Anti-electrastatic, Medium short persistence phosphor
Scanning Frequency (Automatic)	Horizontal : PG17H*/PG19R*/PG19LS/PG21LS: 30 kHz to 96 kHz (Automatic), PG19HS/PG19S*: 30 kHz to 110 kHz (Automatic), PG21MS: 30 kHz to 115 kHz Vertical : 50 Hz to 160 Hz (Automatic)
Display Colors	Unlimited colors
Maximum Resolution	Horizontal : 17"/19"/PG21LS: 1600 Dots, PG21MS: 1800 Dots Vertical : 17"/19"/PG21LS: 1200 Lines, PG21MS: 1440 Dots
Input Video Signal	Analog, 0.7 Vp-p positive at 75 Ω, internally terminated
Input Sync Signal	Separate Sync : TTL level positive/negative Composite Sync : TTL level positive/negative Sync-on-Green : Composite sync 0.3 Vp-p negative (Video on Vp-p positive)
Maximum Pixel Clock rate	17"/PG19LS/PG19R*/PG21LS : 205 MHz, PG19S*/PG19HS : 240 MHz, PG21MS : 280 MHz
Active Display	17" ; Horizontal : 306 mm ± 3 mm (12.05" ± 0.12") Vertical : 230 mm ± 3 mm (9.06" ± 0.12") 19" ; Horizontal : 352 mm ± 3 mm (13.86" ± 0.12") ; 330 mm ± 3 mm (12.99" ± 0.12") Vertical : 264 mm ± 3 mm (10.39" ± 0.12") 21" ; Horizontal : 393 mm ± 3 mm (15.47" ± 0.12") Vertical : 294.5 mm ± 3 mm (11.60" ± 0.12")
Input Voltage	AC 90 to 264 Volts, 60/ 50 Hz ± 3 Hz
Power Consumption (max)	17": 120 Watt , 19": 130 Watt, 21": 140 Watt
Dimensions (W x D x H)	Unit ; 17" : 16.3 x 16.9 x 17.2 Inches (415.0 x 430.3 x 438 mm) 19" : 18.4 x 19.6 x 19.0 Inches (468.0 x 499.0 x 483.2 mm) 21" : 19.8 x 19.4 x 20.0 Inches (504.0 x 492.0 x 508.0 mm) Carton ; 17" : 21.1 x 22.3 x 21.9 Inches (535 x 566 x 555 mm) 19" : 22.6 x 23.2 x 22.8 Inches (573.0 x 590.0 x 580.0 mm) 21" : 25.0 x 24.6 x 25.3 Inches (634.0 x 625.0 x 642.0 mm)
Weight (Net/Gross) (Net/Gross)	17" : 39.0 lbs (17.7 kg) / 45.6 lbs (20.7 kg) 19" : 49.6 lbs (22.5 kg) / 58.8 lbs (26.7 kg) 21" : 57.6 lbs (26.1 kg) / 67.3 lbs (30.5 kg)
Environmental Considerations	Operating Temperature : 32°F to 104°F (0°C to 40°C) Humidity : 10 % to 80 % Storage Temperature : -4°F to 113°F (-20°C to 45°C) Humidity : 5 % to 95 %

- PG17**/PG19**/PG21** complies with TCO 99 recommendations for reduced electromagnetic fields.
- Designs and specifications are subject to change without prior notice.

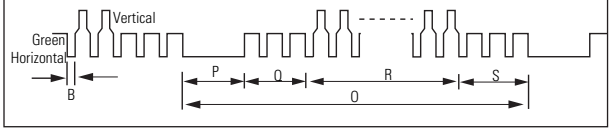
Table 2-1. Timing Chart

Mode / Timing	IBM		VESA							MAC.
	VGA2/70Hz 720 x 400	VGA3/60Hz 640 x 480	640/85 Hz 640 x 480	800/85 Hz 800 x 600	1024/85 Hz 1024 x 768	1280/75 Hz 1280 x 1024	1280/85 Hz 1280 x 1024	1600/75 Hz 1600 x 1200	1600/85 Hz 1600 x 1200	1152/75 Hz 1152 x 870
fH (kHz)	31.469	31.469	43.269	53.674	68.677	79.976	91.146	93.750	106.250	68.681
A µsec	31.778	31.778	23.111	18.631	14.561	12.504	10.971	10.667	9.412	14.560
B µsec	3.813	3.813	1.556	1.138	1.016	1.067	1.016	0.948	0.837	1.280
C µsec	1.907	1.907	3.810	2.702	2.201	1.837	1.422	1.501	1.325	1.440
D µsec	25.422	25.422	5.222	14.222	10.836	9.481	8.127	7.901	6.972	11.520
E µsec	0.636	0.636	17.778	0.569	0.508	0.119	0.406	0.316	0.279	0.320
fV (Hz)	70.087	59.940	85.008	85.061	84.997	75.025	85.024	75.000	85.000	75.062
O msec	14.268	16.683	13.333	11.756	11.765	13.329	11.761	13.333	11.765	13.322
P msec	0.064	0.064	0.080	0.056	0.044	0.038	0.033	0.032	0.028	0.044
Q msec	1.080	1.048	0.427	0.503	0.524	0.475	0.483	0.491	0.433	0.568
R msec	12.711	15.253	12.800	11.179	11.183	12.804	11.235	12.800	11.294	12.667
S msec	0.413	0.318	0.027	0.019	0.015	0.013	0.011	0.011	0.009	0.044
Clock Freq. (MHz)	28.322	25.175	36.000	56.250	94.500	135.000	157.500	202.500	229.50	100.000
Polarity H.Sync	Negative	Negative	Negative	Positive	Positive	Positive	Positive	Positive	Positive	Negative
V.Sync	Positive	Negative	Negative	Positive	Positive	Positive	Positive	Positive	Positive	Negative
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	SOG

Separate Sync



Sync-on-Green



A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	